IN THE SPECIFICATION:

On page 2, please amend the paragraph beginning at line 6 as follows:

--Interworking with such multimedia applications in mobile *radio* networks is defined in the ITU-T video/multimedia recommendation H.324/M. However, in circuit switched mobile *radio* networks, some supplementary call services are only applicable to speech calls but not to data calls. A reason for this is that data transmission protocols both in the network and on the application level will fail if the peer entity disappears, e.g., when the call is put on hold, or if the characteristics of the peer entity change, e.g., when the call is transferred. Consequently, the original connection will permanently fail, e.g., it cannot be reestablished from the hold condition.--

On page 3, please amend the paragraph beginning at line 7 as follows:

--Furthermore, an explicit call transfer (ECT) supplementary service is defined in the GSM specification GTS 02.91. According to this recommendation, the ECT supplementary service enables the served mobile subscriber (subscriber A) who has two calls, each of which can be an incoming or outgoing call, to connect the other parties in the two calls and release the served mobile subscriber's own connection. Prior to transfer, the connection shall have been established on the call between subscriber A and subscriber B. On the call between subscriber A and subscriber C, either the connection shall have been established prior to transfer, or, as a network option, transfer can occur while subscriber C is being informed of the call (i.e., the connection has not yet been established). On successful invocation of ECT supplementary service, the two calls between subscriber A and subscriber B and between subscriber A and subscriber C, respectively, shall be removed from the access of the subscriber A (i.e., the traffic channel and the signaling channel towards subscriber A will be released) and shall be transformed into a normal call between subscriber B and subscriber C, wherein the state of the previously held party is changed to active without a subscriber action. After receipt of an ECT request from the served

subscriber, the visitor location register (VLR) of the serving mobile switching center (MSCI will check if the ECT supplementary service is provisioned for the served subscriber. Moreover, the VLR will also check barring causes and other restrictions. If the outcome of these checks is successful, both calls are connected in the MSC, wherein the held party will be retrieved and both remote parties will be notified that call transfer was done. After that, the served mobile subscriber will be disconnected from both calls. If the above checks fail, the ECT request will be rejected and the two calls remain in the call states in which they were before ECT was attempted.--

On page 4, please amend the paragraph beginning at line 9 as follows:

--In general, the above and other supplementary services can be invoked by entering a corresponding procedure information at the MMI (Man Machine Interface) of a mobile terminal. The procedure information comprises a service code and [[a]] supplementary information. The service code uniquely specifies the supplementary service, either as a defined GSM supplementary service or as a spare service code. All spare service codes can be reserved for future use. The supplementary information may comprise, e.g., a PIN code or a directory number. For further information, it is referred to the GSM specification GTS 02.30.--

On page 4, please amend the paragraph beginning at line 27 as follows:

--This object is achieved by an interworking method for providing a supplementary call service in a telecommunication network, comprising the steps of: monitoring on a signaling path between end terminals a negotiation signaling between respective call parties; storing [[a]] connection information detected in said monitoring step; using said detected connection information to generate a signaling towards at least one of said end terminals to establish said supplementary service, when said supplementary service is invoked by one of said call parties.--

On page 5, please amend the paragraph beginning at line 5 as follows:

--Furthermore, the above object is achieved by an apparatus for providing a supplementary call service in a telecommunication network, comprising: monitoring means for monitoring on a signaling path between end terminals a negotiation signaling of respective call parties: storing means for storing [[a]] connection information detected by the monitoring means: signaling means for generating a signaling towards at least one of said end terminals to establish the supplementary call service in response to the stored connection information, when the supplementary call service is invoked by one of the called parties.--

On page 5, please amend the paragraph beginning at line 19 as follows:

--Accordingly, the inband and/or outband negotiation between the call parties is initially monitored at a location between the respective end terminals and stored in order to be used for establishing a later supplementary call service In case the supplementary call service is provided between connections with different parameters. Thus, a correct protocol signaling can be provided to, e.g., a multimedia end terminal regardless of the protocols used in the network or the other end terminal. Moreover, the supplementary call service can be set even if a subscriber could not be informed via the conventional signaling channel. This is especially valuable in cases where not enough intelligent signaling protocol is available for the end-to-end signaling.--

On page 6, please amend the paragraph beginning at line 17 as follows:

--Preferably, the signaling for establishing the call hold supplementary service may comprise sending [[a]] video information and/or [[an]] audio information to one of the call parties. Thus, a still or moving video and/or an audio announcement can be sent towards the video/multimedia terminal to indicate the call hold condition or to deliver any other relevant information.--

On page 7, please amend the paragraph beginning at line 1 as follows:

--Thus, a multimedia/video connection can be converted into a speech mode using a correct signaling, such that a call transfer, e.g., an ECT, to a speech call can be established. If the two data calls to be transferred cannot be adapted, the fallback signaling may be performed towards both call parties. Furthermore, a coded parameter derived from the connection information may be transmitted to a network element having a transcoding capability, e.g., to an MSC, in order to provide a required transcoding function at the network element. This signaling may be performed if the fallback signaling to one of the call parties has failed.--

On page 7, please amend the paragraph beginning at line 13 as follows:

--Furthermore, changes of call characteristics of the transferred calls may be indicated to an upper layer entity, e.g., an upper layer interworking function, such that an application level compatibility can be recognized and interworking can be performed in the upper layer entity.--

On page 8, please amend the paragraph beginning at line 20 as follows:

--According to Fig. 1, a multimedia end terminal (TE) 5 is connected via the fixed network 4, e.g., a Public Switched Telephone Network (PSTN), IP network or the like, to a mobile terminal (MT) 11 which may be a mobile telephone. The mobile terminal 11 is connected to a multimedia terminal equipment (TE) 12 such as a Personal Computer (PC). The MT 11 is radio-connected to a Base Station Subsystem (BSS) 2 which is connected to a Mobile Switching center (MSC) 30 having an allocated interworking function (IWF) 31. The IWF 31 is provided, e. g., for adapting protocol features of the mobile network to protocol features of the fixed network 4.—

On page 9, please amend the paragraph beginning at line 13 as follows:

--According to Fig. 2, the IWF 31 or the MT 11 comprise a transceiver [[of]] (TRX) 36 for transmitting/receiving speech or data calls to/from the fixed network 4 or the TE 12, respectively. Thus, the TRX 36 comprises a transmitting and a receiving function so as to achieve a

bidirectional data or speech transmission via the fixed network 4 or, respectively, the radio path of the mobile network.--

On page 9, please amend the paragraph beginning at line 21 as follows:

-- Furthermore, a signal processing unit 32 is connected to the TRX 36. In case the apparatus shown in Fig. 2 corresponds to the ~~IWF, the 31~~ IWF 31, the signal processing unit 32 comprises interworking resources (e.g., video and/or audio functions, modem functions etc.) required for adapting data or speech calls to/from the fixed network 4 to data or speech calls to/from the mobile network.--

On page 9, please amend the paragraph beginning at line 29 as follows:

--In case the apparatus shown in Fig. 2 corresponds to the MT 11, the signal processing unit 32 comprises signal processing resources (speech and/or channel transcoding functions, multiplexing/demultiplexing functions, equalizing functions, etc.) required for transmitting/receiving speech or data calls to/from the multimedia TE 12.--

On page 10, please amend the paragraph beginning at line 1 as follows:

--The signal processing unit 32 is controlled by a signaling control unit 33 which performs controls so as to ensure the required signaling according to the protocols use at the input and output side of the apparatus. Furthermore, a monitoring unit 34 with a kind of sniffing function is provided for extracting or monitoring connection parameters of the connections connected via the apparatus. In particular, the connection parameters may comprise a type of audio or video codecs used in the respective connections, a type of video or audio coding protocol or data transmission protocol and related parameters. The extracted or monitored connection parameters may be received through an inband signaling and/or and outband signaling controlled by the signaling control unit 33. The monitoring unit 34 is connected to a memory 35 arranged to store

the monitored or extracted connection parameters. The memory 35 may be any writable volatile or non-volatile memory, e.g., a RAM, EPROM, or flash memory.--

On page 10, please amend the paragraph beginning at line 21 as follows:

--According to the preferred embodiment, the signal control unit 33 is adapted to read the memory 35, when an invocation of a supplementary call service has been received by the signal processing unit 32. Based on the read connection information, the signaling control unit 33 controls the signal processing unit 32 so as to generate the signaling or signal processing functions required according to the characteristics of the input and output connections. Thus, the provision of [[a]] supplementary call services is possible even if the protocols, codings or other parameters of the connected terminals are different.--

On page 11, please amend the paragraph beginning at line 6 as follows:

--Initially, the following preparatory measures are taken before any call hold service is invoked. The monitoring unit 34 monitors the inband negotiation (ITU-T V.8/V.8bis/V.140 or H.245 or corresponding ones) between the video/multimedia TEs 12 and 5 to derive the used protocols, e.g., video coding protocol, audio coding protocol, data transmission protocol, and related parameters (step SlOl). The IWF 31 may receive at least a part of this information through an additional outband signaling. Then, the monitoring unit 34 is controlled by the ~~signal~~ signaling control unit 33 to store the monitored or extracted connection information in the memory 35, to be used at a later stage during a possible call hold activation and condition (step S102). Then, the signaling control unit 33 checks whether the signal ~~control~~ processing unit 32 has received an invocation of a call hold service (step S103). This check is repeated until a call hold invocation has been received. It is to be noted that the flow diagram according to Fig. 3 only comprises those steps relevant for the provision of the call hold service. Thus, other processings may be performed by the signalling control unit 33 during the waiting cycle.—

On page 11, please amend the paragraph beginning at line 29 as follows:

--If an indication of a call hold invocation has been received by the signal processing unit 32 from the MSC 30, the signaling control unit 33 reads the protocol information stored in the memory 35 (step S104), and performs a control so as to generate a hold signaling for keeping alive the protocols towards the fixed network 4 (step S105). The minimum functionality to be provided by the IWF 31 is to keep sending empty or fill frames or supervisory data link layer frames according to the used data link layer protocol specification, e.g., RR/RNR (Receiver Ready/Receiver Not Ready) frames in case of an HDLC based protocol. Furthermore, the signaling control unit 33 of the IWF 31 performs control so as to stop resynchronization attempts towards the MT 11 and to stop any related timers in order to prevent a call failure (step S106).--

On page 12, please amend the paragraph beginning at line 11 as follows:

--Alternatively instead of just keeping the far end protocol entity alive, the signaling control unit 33 may use the protocol and parameter information read from the memory 35 to send a still or moving video and/*or* an audio announcement stored in the memory 35 or in an other memory towards the fixed network, i.e., the far end terminal 5, by using the relevant video, audio and transmission protocols. Thereby, the call hold condition can be indicated to the multimedia terminal 5. Moreover, any other relevant information can be delivered thereto. Thereby, the terminal 5 can be informed of the call hold condition and a corresponding still picture or video sequence can be displayed on the display terminal of the TE 5.--

On page 12, please amend the paragraph beginning at line 25 as follows:

--During the call hold condition the signaling control unit 33 controls the signaling processing unit 32 so as to discard user data (e.g., continuous video *and/or* audio information) received from the TE 5 via the fixed network 4. When the mobile subscriber, i.e., MT 11, terminates the call hold condition and re-establishes the call, the MSC 30 informs the IWF 31 about the change. The signaling control unit 33 checks whether the call hold condition has been terminated (step S107).

If not, the processings of steps S105 and S106 are repeated. If the signaling control unit 33 determines that the call hold condition has been terminated, it controls the signal processing unit 32 so as to synchronize the traffic channel towards the MT 11 (step S108). Furthermore, the signaling control unit 33 stops the alive measures and announcement sendings towards the TE 5 and returns the traffic channel to the normal operation (S109). Then, the provision of the call hold service is terminated.—

On page 13, please amend the paragraph beginning at line 32 as follows:

--Furthermore, the signaling control unit 33 performs a control so as to discard user data (e.g., continuous video and/or audio information) received from the TE 12 during the call hold condition (step S106). When the call hold condition is terminated and the call is re-established, the signaling control unit 33 performs a control so as to synchronize the traffic channel towards the network and to stop the alive measures and announcement sendings towards the TE 12, and to return the traffic channel to the normal operation (steps S108 and S109).--

On page 14, please amend the paragraph beginning at line 8 as follows:

--In case a call hold invocation is activated towards the MT 11 by the TE 5 or any other fixed or mobile terminal, the same processing shown in Fig. 3 is performed in the IWF 31 but the fixed network 4 and the mobile network have changed places, i.e., the IWF 31 performs the keep alive measures (step S106) towards the mobile terminal MT 11.--

On page 14, please amend the paragraph beginning at line 15 as follows:

--Accordingly, as described above, a call hold supplementary service can be provided in a mobile video/multimedia call, e.g., in a GSM or a UMTS network.--

On page 15, please amend the paragraph beginning at line 19 as follows:

--Alternatively, the MSC 30 may check the service definitions by requesting a corresponding information from the signaling control unit 33 of the IWF 31. Then, the [[MCS]] MSC may recognize any difference between the connection parameters, and may supply a corresponding control command to the IWF 31, such that the signaling control unit 33 provides a corresponding signaling.--

On page 15, please amend the paragraph beginning at line 27 as follows:

--In case both connections (A to B and A to C) are on (i.e., called party has answered), one of the connections (i.e., the connection to B) is on hold, and both connections have been set up with the same parameters, i.e., they employ the same bearer service with the same parameters, no difference of the connection parameters is determined in step S205. The same applies to the case that the connection A to B is on hold, the connection A to C is alerting at C when A goes on hook, and the connection A to C is set up with the same parameters as the connection A to B, wherein possible inband negotiation does not change the correct characteristics.--

On page 16, please amend the paragraph beginning at line 5 as follows:

--In the above cases, the operation proceeds to step S213 and the resources of the signal processing unit 32 of the IWF 31 are released and by-passed, i.e., the IWF 31 is connected through in step S213. In other respects, the ECT service operates according to the current standards defined in the respective GSM specifications.--

On page 16, please amend the paragraph beginning at line 12 as follows:

--In case different connection parameters are detected in step S205, the MSC 30 or the signaling control unit 33 of the IWF 31 determine whether different connection parameters are adaptable at an upper protocol level. This is the case, when the connections (A to B and A to C) have been set up with different parameters and are both video calls but with different characteristics, e.g., one connection is a UOI call and the other is a modem call.--

On page 16, please amend the paragraph beginning at line 21 as follows:

--If it is determined in step S206, that the different parameters are adaptable, the operation proceeds to step S208, where the possible parameter changes of the video/audio characteristics are indicated to an upper layer MSC/IWF entity. The upper layer MSC/IWF entity recognizes the application level compatibility of the connection legs (to B and to C) and the need for interworking (e.g., due to the one leg being a UOI leg and the other employing a modem). Then, the IWF entities are connected via a group switch (GSW) which leads to a connection configuration "party B - IWF 31 for B - GSW - IWF 31 for C - party C". Then, the IWF 31 is connected through in step S213.--

On page 16, please amend the paragraph beginning at line 34 as follows:

--In case the different parameters are not adaptable, since one connection is a speech call and the other a video call or both connections are video calls but with unadaptably different characteristics (e.g., different data rates), the operation proceeds to step S207, where the signaling control unit 33 initiates a fallback signaling. As already mentioned, this initiation may also be performed by the MSC 30. The fallback signaling may be e.g., an ITU-T V.8bis inband signaling towards the B party (e. g., TE 5) in order to convert the connection to a speech mode.--

On page 17, please amend the paragraph beginning at line 18 as follows:

--If the determination in step S209 indicates that the fallback negotiation was not successful, e.g., because the B party does not support such a negotiation mechanism, the signaling control unit 33 of the IWF 31 controls the signal processing unit 32 so as to inform the MSC 30 of the failure of the fallback negotiation (8210) and forwards the characteristics of the required audio codec to the MSC 30 (step 8211). Then, the M8C 30 provides the call with appropriate transcoder (TC) resources capable of performing a conversion between the speech codings of parties Band C. The call between the parties Band C is then set up as a speech call with a configuration "speech in a

speech channel between the party C and the TC, speech with a different coding scheme in a video channel between the party B and the IWF 31," wherein (at least) the speech coding is transmitted between the TC of the MSC 30 and the IWF 31, to thereby terminate the ECT service function.--

On page 18, please amend the paragraph beginning at line 1 as follows:

--However, a problem might arise if the connection A to B *is* on hold, and the connection A to C *is* alerting at C when A goes on hook. In this case, the connection A to C may be set up with the same parameters as the connections A to B, and an inband negotiation may lead to different characteristics, e. g., the connection A to B may be 64 kbit/s UOI but the connection to C falls back to a 28.8 kbit/s modem link or to a speech call. As an alternative, the connection A to C may be set up with different parameters than the connection A to B.--

On page 18, please amend the paragraph beginning at line 12 as follows:

--In the above special cases, the A party goes on hook before the C party answers. Thus, the signaling control unit 33 of the IWF 31 may be adapted to perform control so as to establish a handshake with the C party and to replace the missing A party in a possible inband negotiation (e.g., an ITU-T V.140 inband negotiation). The signaling control unit 33 may then use default parameters compatible with the call set up by the A party. The results of the inband negotiation are indicated to an upper layer MSC/IWF entity which then operates as in the case of the above *described* step S205 and following ones, depending on the characteristics of the connection legs to Band C.--

On page 18, please amend the paragraph beginning at line 25 as follows:

--Accordingly the above operations enable the provision of the ECT supplementary call service in a mobile video/multimedia call of, e.g., a GSM or UMTS network.--